	Application No.	Applicant(s)			
Notice of Allowability	10/701,215	XIAO ET AL.			
	Examiner	Art Unit			
	Diana E Janea	2862			
	Diane E. Jones	2802			
- The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication (GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS			
1. A This communication is responsive to communications filed	<u>10/6/05</u> .				
2. The allowed claim(s) is/are <u>6-14,16,17,19-28 and 30-38</u> .					
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 					
 Certified copies of the priority documents have 					
2. Certified copies of the priority documents have	·· —				
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached			
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the					
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 					
Attachment(s) 1. Notice of References Cited (PTO-892)	5	atent Application (PTO-152)			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary				
	Paper No./Mail Da	te			
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	ro), r. ⊠.⊏xaminei's Amendi	nenvcomment			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. X Examiner's Stateme	ent of Reasons for Allowance			
	9. Other				



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10-701,215

APPLICATION NO.I CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION		ATTORNEY DOCKET NO.	
·		: :	EXAMINER		
			ART UNIT	PAPER]
				20051012	

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

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Responsive to communications filed 8/28/2005

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the

changes and/or additions be unacceptable to applicant, an amendment may be filed as

provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Robert M. Tuttle, attorney of record, on 10/13/05 with respect to proposed

amendments submitted by the attorney and filed on 10/06/05 and an agreement which

was reached respecting changes to the aforementioned proposed amendments.

The application has been amended as follows:

In the claims:

Claims 15, 18 and 29 are cancelled.

Claim 6, in line 4, after the phrase "a bucking device disposed on the logging

tool;" insert the phrase "--a current controlling device that provides a current to the

bucking device--".

In Claim 6, lines 5-6, delete the phrase "wherein the bucking device adaptively

cancels a signal induced in at least one of the transmitter or the plurality of receivers"

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and insert the phrase "—wherein the current provided to the bucking device is varied based on which receiver is being used—".

Claim 16, line 6, after the phrase "coupled from the transmitter;" delete the word "and" and insert the phrase "—providing a current with a current controlling device to a bucking device—".

Claim 16, line 7, delete "a" (second recitation) and insert the word "—the—".

Claim 16, line 9, after the word "signal" insert the phrase "varying the current in the bucking device to accommodate a plurality of receivers.—".

Claim 21, line 5, after the word "coil;" insert the phrase "--a current controlling device that provides a current to the bucking coil;--"

Claim 21, line 8, after the word "and", delete the phrase "wherein the bucking coil minimizes the magnitude of the signals that are directly coupled from the transmitting coil to the receiving coil." and insert the phrase "--wherein the current provided to the bucking coil is varied based on whether the first or second receiver is being used.—".

Claim 26, line 1, delete the number "23" and insert the number "-25--"

Claim 28, line 8, delete the word "and".

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Claim 28, line 9, after the word "coil;", insert the phrase "—and wherein the current provided to the bucking coil is varied based on which receiver coil the current controlling device is coupled to.—".

Claim 33, line 3, after the phrase "i = 1, 2, ..., N" insert the phrase "—where 1/N is greater than zero—".

Claim 34, at the end, insert the phrase "—where 1/N is greater than zero and wherein $I_T(f_i)$ is the current in the transmitting coil due to the *i*-th receiving coil at frequency f_i and $I_B(f_i)$ is the current in the bucking coil due to the *i*-th receiving coil at frequency f_i .—".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diane E. Jones. The examiner can normally be reached on M-F.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. E. Jones

Michael Tolear Supervisory Patent Examiner Technology Center 2800

Malal J. Token